

CLAIMS LISTING

Claims 36, 38-43, 45-50, 52-57, 59-64, 66-71, 73-78, 80-85, and 87-105 are now pending in this application in view of entry of the present amendment. The following listing of claims will replace all prior versions, and listings, of claims in the application. Claims 36, 39, 41, 43, 46, 50, 53, 55, 57, 59-64, 66-71, 74, 76, 81, 83, 88 and 90 are herein amended, and claims 58, 65, and 92-105 are herein canceled without prejudice or disclaimer.

36. (currently amended) A polarization changing unit comprising:

a lens array that makes a plurality of light beams; and

a polarizing device comprising:

a transparent plate which has a polarizing beam splitting ~~surface~~ portion on one surface and a ~~reflection-surface~~ reflecting portion on the other surface, wherein each of said plurality of light beams is incident on said transparent plate from said one surface side to be split into reflected light and transmitted light by said polarizing beam splitting ~~surface~~ portion so that the transmitted light is directed to said other surface and reflected by said reflecting portion such that the transmitted light is passed through said one surface ~~by~~ after reflection by said ~~reflection-surface~~ reflecting portion; and

a half wavelength plate array that causes polarizing directions of the transmitted light and the reflected light for each of the plurality of light beams which have been split by said polarizing beam splitting ~~surface~~ portion to be mutually coincident.

 37. (Canceled)

~~38~~² (previously amended) A polarization changing unit according to Claim ~~36~~¹,
wherein said lens array is a cylindrical lens array or a fly eye lens array.

~~39~~³ (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~38~~²; and
a liquid crystal panel for modulating a polarized light from said polarization
changing unit to generate an image light.

~~40~~⁴ (previously amended) An image apparatus according to claim ~~39~~³, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

~~41~~⁵ (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~39~~¹; and
a liquid crystal panel that modulates a polarized light from said polarization
changing unit to generate an image light.

~~42~~⁶ (previously amended) An image apparatus according to claim ~~41~~⁵, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

~~43~~²⁵ (currently amended) A polarization changing unit comprising:

a lens array that makes a plurality of light beams; and
a polarizing device comprising:

H

a transparent plate which has a polarizing beam splitting surface portion on one surface and a ~~reflection-surface~~ reflecting portion on the other surface, wherein each of said plurality of light beams is incident on said transparent plate from said one surface side to be split into reflected light and transmitted light by said polarizing beam splitting surface portion so that the transmitted light is directed to said other surface and reflected by said reflecting portion such that the transmitted light is passed through said one surface ~~by~~ after reflection by said ~~reflection-surface~~ reflecting portion;

a half wavelength plate that causes polarizing directions of the transmitted light and the reflected light for each of the plurality of light beams which have been split by said polarizing beam splitting surface portion to be mutually coincident; and

a prism disposed on said one surface side of said transparent plate, wherein for each of said plurality of light beams the light is incident on said transparent plate through a surface of said prism and the light from said transparent plate is outgoing through another surface of said prism, said another surface being orthogonal to said surface.

44. (Canceled)

26
45. (previously amended) A polarization changing unit according to Claim 43, 25

wherein said lens array is a cylindrical lens array or a fly eye lens array.

27

46. (currently amended) An image apparatus comprising:

a polarization changing unit of claim 45; and

a liquid crystal panel for modulating a polarized light from said polarization changing unit to generate an image light.

28

47. (previously amended) An image apparatus according to claim 46, further

comprising a projecting system for projecting said image light from said liquid crystal panel.

29

48. (previously amended) An image apparatus comprising:

a polarization changing unit of claim 48; and

a liquid crystal panel that modulates polarized light from said polarization changing unit to generate an image light.

30

49. (previously amended) An image apparatus according to claim 48, further

comprising a projecting system for projecting said image light from said liquid crystal panel.

7

50. (currently amended) A polarizing changing unit according to Claim 30,

wherein said polarizing beam splitting surface portion is formed on ~~over~~ all of said one surface and said ~~reflection surface~~ reflecting portion is formed on all of said the other

I
one surface.

51. (Canceled)

8 7
52. (previously amended) A polarization changing unit according to Claim 50,
wherein said lens array is a cylindrical lens array or a fly eye lens array.

41
9
53. (currently amended) An image apparatus comprising:
a polarization changing unit of claim 52; and
a liquid crystal panel for modulating a polarized light from said polarizing device
or said polarization changing unit to generate an image light.

10 9
54. (previously amended) An image apparatus according to claim 53, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

11
55. (currently amended) An image apparatus comprising:
a polarization changing unit of claim 50; and
a liquid crystal panel for modulating a polarized light from said polarizing device
or said polarization changing unit to generate an image light.

12 11
56. (previously amended) An image apparatus according to claim 55, further
comprising a projecting system for projecting said image light from said liquid crystal

panel.

~~13~~
57. (currently amended) A polarizing ~~device~~ changing unit according to Claim ~~36~~,
wherein said polarizing beam splitting ~~surface~~ portion is formed on ~~over~~ all of said one
surface and said ~~reflection-surface~~ reflecting portion is intermittently formed on said the
other ~~one~~ surface.

~~14~~
58. (Canceled)

~~13~~
59. (currently amended) A polarization changing unit according to Claim ~~58~~ ~~57~~,
wherein said lens array is a cylindrical lens array or a fly eye lens array.

~~15~~
60. (currently amended) An image apparatus comprising:
a ~~polarizing device of claim 57 or~~
a polarization changing unit of claim ~~59~~; and
a liquid crystal panel ~~an image generator~~ for modulating a polarized light from
~~said polarizing device or said polarization changing unit~~ to generate an image light.

~~16~~
61. (currently amended) An image apparatus according to claim ~~60~~, further
comprising a projecting system for projecting said image light from said ~~image~~
~~generator~~ liquid crystal panel.

~~17~~
62. (currently amended) An image apparatus comprising:

~~a polarizing device of claim 57 or~~ ¹³
~~a polarization changing unit of claim 58 57; and~~
~~a liquid crystal panel an image generator~~ for modulating a polarized light from
said ~~polarizing device or said~~ polarization changing unit to generate an image light.

¹⁸
63. (currently amended) An image apparatus according to claim ~~68 62~~ ¹⁷, further
comprising a projecting system for projecting said image light from said image
generator liquid crystal panel.

¹⁹
64. (currently amended) A ~~polarizing element~~ polarization changing unit
according to Claim 42 ~~35~~, wherein said polarizing ~~dividing film~~ beam splitting portion is
intermittently formed on said one surface and said ~~reflecting film~~ reflecting portion is
formed on ~~over~~ all of said the other ~~one~~ surface.

65. (Canceled)

²⁰
66. (currently amended) A polarization changing unit according to Claim ~~74 64~~ ¹⁹,
wherein said lens array is a cylindrical lens array or a fly eye lens array.

²³
67. (currently amended) An image apparatus comprising

~~a polarizing element of claim 70;~~

~~a polarization changing unit of claim 72 64;~~ ¹⁹ and

a liquid crystal panel that modulates ~~an image generator for modulating a~~

polarized light from ~~said polarizing element or~~ said polarization changing unit to generate an image light.

²⁴
68. (currently amended) An image apparatus according to claim ~~73~~ ²³ ~~67~~, further comprising a projecting system for projecting said image light from said image generator liquid crystal panel.

²¹
69. (currently amended) An image apparatus comprising
a polarizing element of claim ~~70~~; ²⁰
a polarization changing unit of claim ~~71~~ ⁶⁶ ~~65~~, and
a liquid crystal panel that modulates an image generator for modulating a
polarized light from ~~said polarizing element or~~ said polarization changing unit to generate an image light.

²²
70. (currently amended) An image apparatus according to claim ~~75~~ ²¹ ~~69~~, further comprising a projecting system for projecting said image light from said image generator liquid crystal panel.

³¹
71. (currently amended) A polarization changing unit comprising:
a lens array that makes a plurality of light beams; and
a polarizing device comprising:

a transparent plate which has a polarizing beam splitting surface portion
on one surface and a ~~reflection surface~~ reflecting portion on the other surface,

wherein each of said plurality of light beams is incident on said transparent plate from said one surface side to be split into reflected light and transmitted light by said polarizing beam splitting surface portion so that the transmitted light is directed to said other surface and reflected by said reflecting portion such that the transmitted light is passed through said one surface by after reflection by said ~~reflection surface~~ reflecting portion;

H/1
a half wavelength plate array that causes polarizing directions of the transmitted light and the reflected light for each of the plurality of light beams which have been split by said polarizing beam splitting surface portion to be mutually coincident; and

wherein for each of the plurality of light beams one of said transmitted light and said reflected light is once passed through said half wavelength plate to rotate the polarizing direction by 90 degrees, whereby the polarizing directions of said transmitted light and said reflected light are made to be mutually coincident.

72. (Canceled)

32
73. (previously amended) A polarization changing unit according to Claim 71, 31

wherein said lens array is a cylindrical lens array or a fly eye lens array.

33
74. (currently amended) An image apparatus comprising:

a polarization changing unit of claim 73; and 32

a liquid crystal panel for modulating a polarized light from ~~said polarizing device~~

of said polarization changing unit to generate an image light.

~~34~~ 75. (previously amended) An image apparatus according to claim ~~74~~ ³³, further comprising a projecting system for projecting said image light from said liquid crystal panel.

H1
~~35~~ 76. (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~71~~ ³¹; and
a liquid crystal panel for modulating a polarized light from said ~~polarizing device~~
of said polarization changing unit to generate an image light.

~~36~~ 77. (previously amended) An image apparatus according to claim ~~76~~ ³⁵, further comprising a projecting system for projecting said image light from said liquid crystal panel.

~~37~~ 78. (previously amended) A polarizing changing unit according to Claim ~~71~~ ³¹, wherein said half wavelength plate is disposed on said transparent plate.

ans
~~38~~ 79. (canceled)
H2
~~38~~ 80. (previously amended) A polarization changing unit according to Claim ~~78~~ ³⁷, wherein said lens array is a cylindrical lens array or a fly eye lens array.

~~39~~ 81. (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~80~~ ³⁸, and

a liquid crystal panel for modulating a polarized light from ~~said polarizing device~~
or said polarization changing unit to generate an image light.

~~40~~ 82. (previously amended) An image apparatus according to claim ~~39~~ 81, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

~~41~~ 83. (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~37~~ 78; and
a liquid crystal panel for modulating a polarized light from ~~said polarizing device~~
or said polarization changing unit to generate an image light.

~~42~~ 84. (previously amended) An image apparatus according to claim ~~41~~ 83, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

~~43~~ 85. (previously amended) A polarizing changing unit according to Claim ~~31~~ 71,
wherein said half wavelength plate is disposed in a position apart from said transparent
plate.

 86. (Canceled)

~~44~~ 87. (previously amended) A polarization changing unit according to Claim ~~43~~ 85,
wherein said lens array is a cylindrical lens array or a fly eye lens array.

~~45~~
88. (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~87~~⁴⁴; and
a liquid crystal panel for modulating a polarized light from ~~said polarizing device~~
or said polarization changing unit to generate an image light.

~~46~~
89. (previously amended) An image apparatus according to claim ~~88~~⁴⁵, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.

~~47~~
90. (currently amended) An image apparatus comprising:
a polarization changing unit of claim ~~89~~⁴³; and
a liquid crystal panel for modulating a polarized light from ~~said polarizing device~~
or said polarization changing unit to generate an image light.

~~48~~
91. (previously amended) An image apparatus according to claim ~~90~~⁴⁷, further
comprising a projecting system for projecting said image light from said liquid crystal
panel.